## ABSTRACT OF THE DISCLOSURE

1	A data bit stream is segmented into 4-bit data words and successively
2	shifted two bits at a time. For each 4-bit data word a corresponding 3-bit
3	code word is detected in a conversion table. Two higher significant bits of
4	each data word is converted to the detected code word and two lower
5	significant bits of the data word is then converted as two higher significant
6	bits of a subsequent data word to a corresponding code word, so that a
7	channel bit stream formed by a series of such code words has no consecutive
8	1's. A digital sum value of the channel bit stream is determined and a search
9	is made for a code word "010" which is consecutive with a code word "000".
10	The detected code word " $010$ " is replaced with a substitute code word " $000$ "
11	if the replacement results in the digital sum value approaching zero.